

## 导师简介

姓名	于磊	性别	男	出生年月	1990年9月	
职称	教授	民族	汉	籍贯	山东沂水	
电子邮箱	yulei2018@zzu.edu.cn			最终学位	博士	
学术兼职	ICID 水-粮食-能源纽带工作组专家成员					
研究方向	水资源系统不确定性分析、水与关联要素协同调控、复杂水网系统智慧管控					
主要学习、科研和工作经历	<ul style="list-style-type: none"> <li>➤ 2026-2027, University of California, Berkeley (访问学者, 待派出)</li> <li>➤ 2018-至今, 郑州大学, 水利与交通学院, 讲师、副教授、教授</li> <li>➤ 2018-2024, 郑州大学水利工程博士后科研流动站, 博士后</li> <li>➤ 2016-2017, University of Regina (联合培养)</li> <li>➤ 2013-2018, 华北电力大学, 工学博士</li> </ul>					
代表性科研成果	<p style="text-align: center;"><b>主持国家和省部级项目多项, 荣获三育人、优秀共产党员、优秀班主任、优秀毕业论文指导教师称号。</b></p> <p style="text-align: center;"><b>在研科研项目:</b></p> <ol style="list-style-type: none"> <li>1. 国家自然科学基金面上项目, 多层次水-能-粮-生态协同降碳增汇机理与和谐调控方法研究, 2026-2029, 主持</li> <li>2. 国家重点研发计划子课题, 基于多层多目标的水系统低碳调配技术研发、区域尺度的气候变化-水-能-粮系统间的碳效应纽带关系识别, 2025-2027, 主持</li> <li>3. 国家重点研发计划子课题, 面向节水减污、优能降碳、宜境扩绿、高质量增长等多目标统筹的绿色流域构建路径优化研究, 2023-2027, 主持</li> </ol> <p style="text-align: center;"><b>代表性论文:</b></p> <ol style="list-style-type: none"> <li>1. Zeng et al., How can mix-tool pathways coordinate rural farmers' income and urban residents' ecological need: regional government policies design under ecological product market dynamics, <i>Humanities &amp; Social Sciences Communications</i>, 2025, revision (Nature 子刊)</li> <li>2. Liu et al., Global Dynamics of Compound Flash Drought and Heatwave Events: Characteristics and Underlying Meteorological Conditions, <i>Water Resources Research</i>, 2025, under review (水文水资源顶刊)</li> <li>3. Liu et al., Understanding spatio-temporal patterns of the propagation characteristics across meteorological, hydrological, and agricultural droughts and their influencing factors, <i>Hydrology and Earth System Sciences</i>, 2025, revision (水文水资源顶刊)</li> <li>4. Wang et al., Parsimonious modeling of the hydrological performance of blue-green</li> </ol>					

roofs in the integrated water supply and irrigation management, *Water Resources Research*, 2025, 2025WR039940 (水文水资源顶刊)

5. Li et al., Water-energy-carbon nexus of China's Yellow River water allocation schemes, *Energy Conversion and Management*, 2025, 332, 119761(郑大三高 TOP)
6. Ma et al., An interval joint-probabilistic stochastic flexible programming method for planning municipal-scale energy-water nexus system under uncertainty, *Energy Conversion and Management*, 2020, 208, 112576 (郑大三高 TOP)
7. Yang et al., Optimizing the management of multiple water resources in irrigation area under uncertainty: A novel scenario-based multi-objective fuzzy-credibility constrained programming model, *Journal of Hydrology*, 2024, 640, 131633 (中科院一区 TOP)
8. Fan et al., Towards reliable uncertainty quantification for hydrologic predictions, Part I: Development of a particle copula Metropolis Hastings method, *Journal of Hydrology*, 2022, 612, 128163 (中科院一区 TOP)
9. Fan et al., Towards reliable uncertainty quantification for hydrologic predictions, part II: Characterizing impacts of uncertain factors through an iterative factorial data assimilation framework, *Journal of Hydrology*, 2022, 612, 128136 (中科院一区 TOP)
10. Ma et al., Multi-preference based interval fuzzy-credibility optimization for planning the management of multiple water resources with multiple water-receiving cities under uncertainty, *Journal of Hydrology*, 2020, 591, 125259 (中科院一区 TOP)
11. Yu et al., Coupling the two-level programming and copula for optimizing energy-water nexus system management - A case study of Henan Province, *Journal of Hydrology*, 2020, 586, 124832 (中科院一区 TOP)
12. 于磊 等, 灌区多水源系统碳排放核算及水-能-碳关联分析, *水科学进展*, 2026, 37(1): 81-93 (水文水资源中文顶刊)

#### 科技奖励、荣誉称号:

- 2025 年, ICID 水-粮食-能源纽带工作组专家成员
- 2024 年, 中国科协财政项目评审专家
- 2021 年, 郑州大学优秀青年人才创新团队负责人 (聘期考核优秀)
- 2020 年, 郑州大学青年拔尖人才 (聘期考核优秀)
- 2019 年, 中原青年拔尖人才

课题组科研氛围浓厚, 与国内外顶尖高校/机构长期保持密切合作, 鼓励学生出国/境参加国际学术会议/访学, 欢迎报考!